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PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO				Complete if Known	
				Application Number	10/054712
				Filing Date	November 13, 2001
				First Named Inventor	Gerald R. Crabtree
				Art Unit	2422-1634
				Examiner Name	Not Yet Assigned D. Lambertson
Sheet	1	of	11	Attorney Docket Number	APBI-P08-317

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D. Lambertson

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DL	AA	5,171,671	05-15-1994	Evans et al.	
DL	AB	6,054,436	04-25-2000	Crabtree et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
DL	AC	EP 0 594 847	05-04-1994	Tonen Corp.	
DL	AD	WO 92/01052	01-23-1992	Tonen Corp.	
DL	AE	WO 93/23550	11-25-1993	Genentech, Inc.	
DL	AF	WO 93/25533	12-23-1993	Abbott Labs	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DL	AG	Alberg, D.G and Schreiber, S.L. Structure-Based Design of a Cyclophilin-Calcineurin Bridging Ligand. <i>Science</i> 262, 248-250 (1993).	
DL	AH	Albers, M.W. et al. Substrate Specificity for the Human Rotamase FKBP: A View of FK506 and Rapamycin as Leucine (twisted amide)-Proline Mimics. <i>J. Org. Chem.</i> 55, 4984-4986 (1990).	
DL	AI	Albers, M.W. et al. Relationship of FKBP to PKCl-1. <i>Nature</i> 351, 527 (1991).	
DL	AJ	Albers, M.W. et al. FKBP, Thought to be Identical to PKCl-2, Does Not Inhibit Protein Kinase C. <i>BioMed. Chem. Lett.</i> 1, 205-210 (1991).	
DL	AK	Albers, M.W. et al. An FKBP-Rapamycin Sensitive, Cyclin-Dependent Kinase Activity That Correlates with the FKBP Rapamycin-Induced G1 Arrest Point in MG-63 Cells. <i>Annals of N.Y. Acad. Sci.</i> 696, 54-62 (1993).	
DL	AL	Andrus, M.B. and Schreiber, S.L. Structure-Based Design of an Acyclic Ligand That Bridges FKBP12 and Calcineurin. <i>J. Am. Chem. Soc.</i> 115, 10420-10421 (1993).	
DL	AM	Ben-Levy, R. et al. A oncogenic point mutation confers High Affinity Ligand Binding to the neu Receptor. <i>J. Biol. Chem.</i> 267, 17304-17313 (1992).	

Examiner Signature	<i>David Lambertson</i>	Date Considered	11/11/03
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number 10/054712
 Filing Date November 13, 2001
 First Named Inventor Gerald R. Crabtree
 Art Unit 2422-1434
 Examiner Name Not Yet Assigned D. MAY 20 2003
 Attorney Docket Number APBI-P08-317

Sheet

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of

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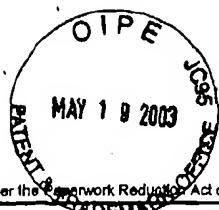
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DJ	AN	Bergsma, D.J. et al. The Cyclophilin Multigene Family of Peptidyl-Prolyl Isomerasases. <i>J. Biol. Chem.</i> 266, 23204-23214 (1991).
DJ	AO	Bernard, O. et al. High-affinity Interleukin-2 Binding by an Oncogenic Hybrid Interleukin-2/Epidermal Growth Factor Receptor Molecule. <i>PNAS</i> 84, 2125-2129 (1987).
DJ	AP	Bierer, B.E. et al. Mechanisms of Immunosuppression by FK506: Preservation of T Cell Transmembrane Signal Transduction. <i>Transplantation</i> 49, 1168-1202 (1990).
DJ	AQ	Bierer, B.E. et al. Probing Immunosuppressant Action with a Nonnatural Immunosuppressive Ligand. <i>Science</i> 250, 556-559 (26 Oct. 1990).
DJ	AR	Bierer, B.E. et al. Two Distinct Signal Transmission Pathways in T Lymphocytes are Inhibited by Complexes Formed Between an Immunophilin and Either FK506 or Rapamycin. <i>PNAS</i> 87, 9231-9235 (Dec. 1990).
DJ	AS	Bierer, B.E. et al. The Effect of the Immunosuppressant FK506 on Alternate Pathways of T Cell Activation. <i>Eur. J. Immunol.</i> 21, 439-445 (1991).
DJ	AT	Bonnerot, C. et al. Role of associated γ -chain in Tyrosine Kinase Activation via Murine FcRIII. <i>EMBO J.</i> 11, 2747-2757 (1992).
DJ	AU	Bram, R.J. et al. Identification of the Immunophilins Capable of Mediating Inhibition of Signal Transduction by Cyclosporin A and FK506: Roles of Calcineurin Binding and Cellular Location. <i>Mol. Cell. Biol.</i> 13, 4760-4769 (Aug. 1993).
DJ	AV	Byrn, R.A. et al. Biological Properties of a CD4 Immunoadhesin. <i>Nature</i> 344, 667-670 (12 April 1990).
DJ	AW	Cantley, L.C. et al. Oncogenes and signal transduction. <i>Cell</i> 64, 281-302 (25 Jan. 1991).
DJ	AX	Chan, A.C. et al. The ζ Chain is associated with a Tyrosine Kinase and upon T-Cell Antigen Receptor Stimulation Associates with ZAP-70, a 70-kDa Tyrosine Phosphoprotein. <i>PNAS</i> 88, 9166-9170 (Oct. 1991).
DJ	AY	Chung, J. et al. Rapamycin-FKBP specifically blocks growth-dependent activation of and signalling by the 70 kd S6 protein kinases. <i>Cell</i> 69, 1227-1236 (26 June 1992).
DJ	AZ	Clark, M.R. et al. The B Cell Antigen Receptor Complex: Association of Ig- α and Ig- β with Distinct Cytoplasmic Effectors. <i>Science</i> 258, 123-126 (2 Oct. 1992).
DJ	BA	Clipstone, N.A. et al. Calcineurin: Molecular analysis of its interaction with drug-immunophilin complexes and its role in the regulation of NF-AT. <i>J. Cell. Biochem. Suppl.</i> 0 (18B) 274, Abstract #I410 (1994).
DJ	BB	Crabtree, G. R. IL-2 receptor in the pathogenesis of human lymphoma. Abstract of NIH Grant 5R01CA039612-03 (1987).
DJ	BC	Crabtree, G. R. Pathways of T lymphocyte activation. Abstract of NIH Grant 2R01CA039612-07 (1991).

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Signature*David Lambert*Date
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Application Number	10/054712
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First Named Inventor	Gerald R. Crabtree
Art Unit	2122-1634
Examiner Name	Not Yet Assigned D. LAMBERTSON

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 11

Attorney Docket Number APBI-P08-317

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DJ	BD	DiLella, A.G. et al. Chromosomal Band Assignments of the Genes Encoding Human FKBP12 and FKBP13. <i>Biochem. Biophys. Res. Commun.</i> 189, 819-823 (15 Dec. 1992).
DJ	BE	Donald, D.K. et al. C10 N-Acyl Modified FK-506: A Possible Hybrid Analogue of the Transition State of Peptidyl-Prolyl Cis-Trans Isomerization. <i>Tetrahedron Letters</i> 31, 1375-1378 (1991).
DJ	BF	Durand, D.B. et al. Characterization of Antigen Receptor Response Elements within the Interleukin-2 Enhancer. <i>Mol. Cell. Biol.</i> 8, 1715-1724 (April 1988).
DJ	BG	Eberle, M.K. and Nuninger, F. Synthesis of the Main Metabolite (OL-17) of Cyclosporin A. <i>J. Org. Chem.</i> 57, 2689-2691 (1992).
DJ	BH	Edalji, R. et al. High-Level Expression of Recombinant Human FK-Binding Protein from a Fusion Precursor. <i>J. Prot. Chem.</i> 11, 213-223 (1992).
DJ	BI	Eiseman, E. and Bolen, J.B. Signal Transduction by the Cytoplasmic Domains of Fc ϵ RI- γ and TCR γ J- γ in Rat Basophilic Leukemia Cells. <i>J. Biol. Chem.</i> 267, 21027-21032 (15 Oct. 1992).
DJ	BJ	Emmel, E.A. et al. Cyclosporin A Specifically Inhibits Function of Nuclear Proteins Involved in T-Cell Activation. <i>Science</i> 246, 1617-1620 (22 Dec. 1989).
DJ	BK	Engel, I. et al. High-Efficiency Expression and Solubilization of Functional T-Cell antigen Receptor Heterodimers. <i>Science</i> 256, 1318-1321 (29 May 1992).
DJ	BL	Evans, D.A. et al. Mechanistic Study of the Rhodium(I)- and Iridium(I)-Catalyzed Hydroboration Reactions: Scope and Synthetic Applications. <i>J. Am. Chem. Soc.</i> 114, 6671-6679 (1992).
DJ	BM	Evans et al. Mechanistic study of the rhodium(I)-catalyzed hydroboration reaction. <i>J. Am. Chem. Soc.</i> 114, 6679-6685 (1992).
DJ	BN	Fields, S. & Song, O-K.. A Novel Genetic System to Detect Protein-Protein Interactions. <i>Nature</i> 340, 245-246 (20 July 1989).
DJ	BO	Fischer, G. et al. Mip protein of <i>Legionella pneumophila</i> exhibits peptidyl-prolyl-cis/trans isomerase (Pplase) activity. <i>Mol. Microbiol.</i> 6, 1375-1383 (1992).
DJ	BP	Fisher, M.J. et al. On the Remarkable Propensity for Carbon-Carbon Bond Cleavage Reactions in the C8-C10 Region of FK-506. <i>J. Org. Chem.</i> 56, 2900-2907 (1991).
DJ	BQ	Flanagan, W.M. et al. Nuclear Association of a T-Cell Transcription Factor Blocked by a Tyrosine Factor Blocked by FK-506 and Cyclosporin A. <i>Nature</i> 352, 803-807 (29 Aug. 1991).
DJ	BR	Flanagan, W.M. et al. Intracellular signal transmission: a novel role for the prolyl isomerases. <i>J. Cell. Biochem. Suppl.</i> 0 (16 Part A) 61, Abstract #B005 (1992).
DJ	BS	Flanagan, W.M. et al. Nuclear association of a transcription factor essential for T cell activation by cyclosporin A and FK506. <i>J. Cell. Biochem. Suppl.</i> 0 (16 Part B), 237, Abstract #H514 (1992).

Examiner Signature

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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; vertical-align: top; padding: 5px;"> <i>DJ</i> </td> <td style="width: 15%; vertical-align: top; padding: 5px;"> BT </td> <td style="width: 85%; vertical-align: top; padding: 5px;"> Francavilla, A. et al. Inhibition of Liver, Kidney, and Intestine Regeneration by Rapamycin. <i>Transplantation</i> 53, 496-498 (1992). </td> </tr> <tr> <td style="vertical-align: top; padding: 5px;"> <i>DJ</i> </td> <td style="vertical-align: top; padding: 5px;"> BU </td> <td style="vertical-align: top; padding: 5px;"> Fretz, H. et al. Rapamycin and FK506 Binding Proteins (Immunophilins). <i>J. Am. Chem. Soc.</i> 113, 1409-1411 (1991). </td> </tr> <tr> <td style="vertical-align: top; padding: 5px;"> <i>DJ</i> </td> <td style="vertical-align: top; padding: 5px;"> BV </td> <td style="vertical-align: top; padding: 5px;"> Friedman, J. & Weissman, I. 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<i>DJ</i>	CF	Hultsch, T. et al. Immunophilin Ligands Demonstrate Common Features of Signal Transduction Leading to Exocytosis or Transcription. <i>PNAS</i> 88, 6229-6233 (July 1991).																																																			
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Examiner Signature	<u>David Jansson</u>	Date Considered	11/11/03
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				Application Number	10/054712
				Filing Date	November 13, 2001
				First Named Inventor	Gerald R. Crabtree
				Art Unit	2422-1636
				Examiner Name	NOT Yet Assigned D. LAMBERTSON
Sheet	5	of	11	Attorney Docket Number	APBI-P08-317 Technology Center 2100

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Sheet 7 of 11

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				First Named Inventor	Gerald R. Crabtree
				Art Unit	2422-1636
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Sheet

9 of 11

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Application Number	10/054712
Filing Date	November 13, 2001
First Named Inventor	Gerald R. Crabtree
Art Unit	2122-1636
Examiner Name	Not Yet Assigned D. LAMBERTSON

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				First Named Inventor	Gerald R. Crabtree
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				Examiner Name	Not Yet Assigned D. Lambertson
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				First Named Inventor	Gerald R. Crabtree
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Sheet	11	of	11	Attorney Docket Number	APBI-P08-317

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